

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| S1    | 2328 | (thermoplastic polyamide polycarbonate pvdf ptfte fluoropolymer polyolefin polyethylene polypropylene liquid adj crystalline adj (polymer polyester)) and carbon adj fiber and carbon adj black and (wt weight volume) near2 ('%' percent part ratio \$2%) and (static adj dissipat\$6 ESD electro\$2magnetic shield\$4 antistatic) | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:36 |
| S2    | 321  | S1 and carbon adj fiber same (wt weight volume) near2 ('%' \$2% percent part ratio) and carbon adj black same (wt weight volume) near2 ('%' \$2% percent part ratio)  | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:38 |
| S3    | 89   | S1 and liquid adj crystalline adj (polyester polymer)   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:38 |
| S4    | 204  | liquid adj crystalline adj (polyester polymer) and carbon adj fiber and carbon adj black and (wt weight volume) near2 ('%' percent part ratio)  | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:39 |
| S5    | 66   | (thermoplastic polyamide polycarbonate polyolefin polyethylene polypropylene liquid adj crystal\$5 adj (polymer polyester)) and carbon adj fiber and carbon adj black and (static adj dissipat\$6 ESD electromagnetic shield\$4 antistatic)   | EPO; JPO; DERWENT      | OR               | ON      | 2005/09/29 09:39 |
| S6    | 10   | S5 and (wt weight volume) near2 ('%' percent part ratio)  | EPO; JPO; DERWENT      | OR               | ON      | 2005/09/29 09:39 |
| S7    | 29   | (thermoplastic.clm. liquid adj crystalline.clm. ) and carbon adj fiber.clm. and carbon adj black. clm. and volume.clm.  | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:40 |
| S8    | 33   | waggoner near2 marion.in. william near2 hassink.in.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:41 |
| S9    | 17   | S8 and (carbon adj black and carbon adj fiber static antistatic)  | US-PGPUB; USPAT; USOCR | OR               | ON      | 2005/09/29 09:41 |

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|-----|----|--|------------------------------|----|----|------------------|
| S10 | 45 | US-4864013-\$.DID. OR US-4868278-\$.DID. OR US-4882410-\$.DID. OR US-4999416-\$.DID. OR US-5015721-\$.DID. OR US-5015722-\$.DID. OR US-5025082-\$.DID. OR US-5086158-\$.DID. OR US-5102935-\$.DID. OR US-5110896-\$.DID. OR US-5143956-\$.DID. OR US-5820788-\$.DID. OR US-4269965-\$.DID. OR US-4272625-\$.DID. OR US-4370466-\$.DID. OR US-4383105-\$.DID. OR US-4447592-\$.DID. OR US-4522974-\$.DID. OR US-4664972-\$.DID. OR US-4684712-\$.DID. OR US-4727129-\$.DID. OR US-4727131-\$.DID. OR US-4728714-\$.DID. OR US-4749769-\$.DID. OR US-4762907-\$.DID. OR US-4778927-\$.DID. OR US-4816555-\$.DID. OR US-4849499-\$.DID. OR US-4847626-\$.DID. OR US-4851496-\$.DID. OR US-4851497-\$.DID. OR US-3991013-\$.DID. OR US-4048148-\$.DID. OR US-4075262-\$.DID. OR US-4083829-\$.DID. OR US-4122070-\$.DID. OR US-4130545-\$.DID. OR US-4153779-\$.DID. OR US-4169933-\$.DID. OR US-4159365-\$.DID. OR US-4184996-\$.DID. OR US-4189549-\$.DID. OR US-4232143-\$.DID. OR US-4245082-\$.DID. OR US-4256624-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/29 09:41 |
| S11 | 8  | S10 and (polyamide polycarbonate polyolefin thermoplastic liquid adj crystalline) and carbon adj fiber and carbon adj black  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/29 09:42 |

[polymerweb.com](http://www.polymerweb.com)..... [plasticsusa.com](http://www.plasticsusa.com)

## Polycarbonate/ABS Alloy

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|  |          |
|--|----------|
| Specific Gravity                             | 1.14     |
| Shrinkage,in/in,1/8 in. thick                | 0.0060   |
| Shrinkage,in/in,1/4 in.thick                 | 0.0070   |
| Water Absorption,% 24hrs                     | 0.150    |
| MECHANICAL                                   |          |
| Impact,Izod,Notched (Ft-Lb/In)               | 8.00     |
| Impact,Izod,Unnotched(Ft-Lb/In)              | NO BREAK |
| Tensile Strength (Psi)                       | 750      |
| Tensile Elongation (%)                       | 100.000  |
| Tensile Modulus (Psi x E+6)                  | 0.34     |
| Flexual Strength (Psi)                       | 12,000   |
| Flexural Modulus (Psi x E+6)                 | 0.34     |
| Compressive Strength (Psi)                   | NA       |
| Hardness (Rockwell R)                        | 116.0    |
| ELECTRICAL                                   |          |
| Dielectric Strength (V/Mil)                  | 400      |
| Dielectric Constant(@ 1 MC dry)              | 3.00     |
| Dissipation Factor(@ 1 MC dry)               | 0.008    |
| Arc Resistance (sec)                         | NA       |
| Volume Resistivity(ohm-cm)10E##              | 16.0     |
| THERMAL                                      |          |
| Heat Deflection Temp 264 psi(F)              | 230      |
| Heat Deflection Temp 66 psi(F)               | 250      |
| Flammability                                 | HB       |
| Thermal Expansion (In/In/F)x10 <sup>-5</sup> | 4.000    |
| Thermal Conductivity                         | 1.3      |
| WEAR   |          |
| Wear Factor                                  | NA       |
| U L yellow card                              | NO       |

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**BACK**